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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/755,189	01/08/2001	Bong-hwan Cho	Q62412	4872
7590 08/18/2004 SUGHRUE, MION, ZINN, MACPEK & SEAS, PLLC 2100 PENNSYLVANIA AVENUE, N.W.			EXAMINER	
			NGO, CHUONG D	
	N, DC 20037-3213	<i>7</i> .	ART UNIT	PAPER NUMBER
			2124	

DATE MAILED: 08/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)	7
	09/755,189	CHO, BONG-HWAN	C.
Office Action Summary	Examiner	Art Unit	
	Chuong D Ngo	2124	
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet wit	th the correspondence address	s
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a re pply within the statutory minimum of thirty In will apply and will expire SIX (6) MONT In the cause the application to become AB	eply be timely filed (30) days will be considered timely. THS from the mailing date of this commur ANDONED (35 U.S.C. 8 133)	nication.
Status			
1) Responsive to communication(s) filed on 04	May 2004.		
2a)⊠ This action is FINAL . 2b)☐ Th	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			rits is
Disposition of Claims			
4) Claim(s) 1-18 is/are pending in the application 4a) Of the above claim(s) is/are withdress 5) Claim(s) is/are allowed. 6) Claim(s) 1-3,13,14,17 and 18 is/are rejected. 7) Claim(s) 4-12,15 and 16 is/are objected to. 8) Claim(s) are subject to restriction and/	rawn from consideration.		
Application Papers			
9)☐ The specification is objected to by the Examir	ner.		
10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to the	-	` ,	
Replacement drawing sheet(s) including the corre			• ,
	-xaminer. Note the attached	Office Action of form PTO-15	02.
Priority under 35 U.S.C. § 119			
12) △ Acknowledgment is made of a claim for foreig a) △ All b) ☐ Some * c) ☐ None of: 1. △ Certified copies of the priority documer 2. ☐ Certified copies of the priority documer 3. ☐ Copies of the certified copies of the priority documer application from the International Burea	nts have been received. nts have been received in Ap ority documents have been r au (PCT Rule 17.2(a)).	oplication No received in this National Stag	e
* See the attached detailed Office action for a lis	a or the certified copies not r	eceived.	
Attachment(s)			
Notice of References Cited (PTO-892)	A) Interview St	ımmary (PTO-413)	
P) Dotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	3) 5) Notice of Info 6) Other:	ormal Patent Application (PTO-152)	!

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DETAILED ACTION

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1. Claims 1,2 and 13 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Gross (4,326,260).

Gross discloses in figure 1 an apparatus for detecting an operation value for input data including a means (34) for storing unevenly spaced seed values (34, see figure 4), and address and data generator (24,26) for comparing the input data with reference values (see figure 3) and generating an address (28) and revised input data (36), and an operator (22,40) for performing a predetermined operation to output an operation values as claimed.

2. Claim 3 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Gross (4,326,260).

It is noted that Gross does not disclose the addition of new seed points until an error value satisfies error rate conditions. However, Gross disclose in col. 3, lines 45-48, that the apparatus has three seed points but suggest that additional seed points may be included. It would have been obvious to a person of ordinary skill in the art to add more seed points to the apparatus of Gross if an error value does not satisfies error rate conditions, in order to reduce errors.

3. Claims 1,13,14,17 and 18 stand rejected under 35 U.S.C. 102(b) as being clearly anticipated by Duvanenko et al. (5,951,625)

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Duvanenko et al discloses in figure 3A an apparatus for detecting an operation value for input data including a means (34) for storing seed values (22), and address and data generator

(24) for comparing the input data with a reference value (see figure 4, 100) and generating an

upper address and a lower address (see figure 4,114,118), and revised input data (20), and an

operator (26) for performing a predetermined operation to output an operation values as

claimed.

4. Claims 4-12,15 and 16 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

5. Applicant's arguments filed on 05/24/2004 have been fully considered but they are not

persuasive.

It is respectfully submitted that Gross does disclose a ROM and Kuvanenko discloses

LUT as the claimed look up table. In addition, the seed points and the number of seed points

in both Gross and Duvanenko are not randomly selected but clearly based on some error rate,

otherwise, only one seed point is needed. Further, Gross' suggestion of additional seed points

in col. 3, lines 45-48, is clearly for nothing else but reducing the approximation error.

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- 7. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuong D Ngo whose telephone number is (703) 305-9764. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kakali Chaki can be reached on (703) 309-9662. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the

Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-

free).

Chuong D Ngo Primary Examiner Page 5

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08/10/2004